Flight-Testing Newton's Laws			
2006 21st Century Mathematics			
Standards and Objectives			
West Virginia 21st Century Mathematics			
Grades 9-12 (Algebra I)			
Activity/Lesson	**State**	**Standards**	
Session-10 (1-5)	WV	MA.9-12.M.O.A1.2.1	Students will formulate algebraic expressions for use in equations and inequalities that require planning to accurately model real-world problems.
Session-10 (1-5)	WV	MA.9-12.M.O.A1.2.3	Students will evaluate data provided, given a real-world situation, select an appropriate literal equation and solve for a needed variable.
Session-1 (1-17)	WV	MA.9-12.M.O.A1.2.3	Students will evaluate data provided, given a real-world situation, select an appropriate literal equation and solve for a needed variable.
Session-2 (1-10)	WV	MA.9-12.M.O.A1.2.1	Students will formulate algebraic expressions for use in equations and inequalities that require planning to accurately model real-world problems.
Session-2 (1-10)	WV	MA.9-12.M.O.A1.2.3	Students will evaluate data provided, given a real-world situation, select an appropriate literal equation and solve for a needed variable.
Session-3 (1-6)	WV	MA.9-12.M.O.A1.2.3	Students will evaluate data provided, given a real-world situation, select an appropriate literal equation and solve for a needed variable.
Session-4 (1-11)	WV	MA.9-12.M.O.A1.2.1	Students will formulate algebraic expressions for use in equations and inequalities that require planning to accurately model real-world problems.
Session-4 (1-11)	WV	MA.9-12.M.O.A1.2.3	Students will evaluate data provided, given a real-world situation, select an appropriate literal equation and solve for a needed variable.
Session-5 (1-6)	WV	MA.9-12.M.O.A1.2.1	Students will formulate algebraic expressions for use in equations and inequalities that require planning to accurately model real-world problems.
Session-5 (1-6)	WV	MA.9-12.M.O.A1.2.3	Students will evaluate data provided, given a real-world situation, select an appropriate literal equation and solve for a needed variable.
Session-6 (1-8)	WV	MA.9-12.M.O.A1.2.1	Students will formulate algebraic expressions for use in equations and inequalities that require planning to accurately model real-world problems.
Session-6 (1-8)	WV	MA.9-12.M.O.A1.2.3	Students will evaluate data provided, given a real-world situation, select an appropriate literal equation and solve for a needed variable.
Session-7 (1-5)	WV	MA.9-12.M.O.A1.2.1	Students will formulate algebraic expressions for use in equations and inequalities that require planning to accurately model real-world problems.

Session-7 (1-5)	WV	MA.9-12.M.O.A1.2.3	Students will evaluate data provided, given a real-world situation, select an appropriate literal equation and solve for a needed variable.
Session-8 (1-9)	WV	MA.9-12.M.O.A1.2.3	Students will evaluate data provided, given a real-world situation, select an appropriate literal equation and solve for a needed variable.
Session-9 (1-7)	WV	MA.9-12.M.O.A1.2.3	Students will evaluate data provided, given a real-world situation, select an appropriate literal equation and solve for a needed variable.
Flight-Testing Newton's Laws			
2006 21st Century Mathematics			
Standards and Objectives			
West Virginia 21st Century Mathematics			
Grades 9-12 (Algebra II)			
Activity/Lesson	**State**	**Standards**	
Session-10 (1-5)	WV	MA.9-12.M.O.A2.2.11	Students will solve practical problems involving direct, inverse and joint variation.
Session-1 (1-17)	WV	MA.9-12.M.O.A2.2.11	Students will solve practical problems involving direct, inverse and joint variation.
Session-2 (1-10)	WV	MA.9-12.M.O.A2.2.11	Students will solve practical problems involving direct, inverse and joint variation.
Session-3 (1-6)	WV	MA.9-12.M.O.A2.2.11	Students will solve practical problems involving direct, inverse and joint variation.
Session-4 (1-11)	WV	MA.9-12.M.O.A2.2.11	Students will solve practical problems involving direct, inverse and joint variation.
Session-5 (1-6)	WV	MA.9-12.M.O.A2.2.11	Students will solve practical problems involving direct, inverse and joint variation.
Session-6 (1-8)	WV	MA.9-12.M.O.A2.2.11	Students will solve practical problems involving direct, inverse and joint variation.
Session-7 (1-5)	WV	MA.9-12.M.O.A2.2.11	Students will solve practical problems involving direct, inverse and joint variation.
Session-8 (1-9)	WV	MA.9-12.M.O.A2.2.11	Students will solve practical problems involving direct, inverse and joint variation.
Session-9 (1-7)	WV	MA.9-12.M.O.A2.2.11	Students will solve practical problems involving direct, inverse and joint variation.
Flight-Testing Newton's Laws			
2006 21st Century Mathematics			
Standards and Objectives			
West Virginia 21st Century Mathematics			
Grades 9-12 (Trigonometry)			
Activity/Lesson	**State**	**Standards**	
Session-10 (1-5)	WV	MA.9-12.M.O.T.3.2.b	Students will compare and contrast the concepts of angular velocity and linear velocity and demonstrate by graphical or algebraic means relationship between them and apply to real-world problems.

Session-1 (1-17)	WV	MA.9-12.M.O.T.3.2.b	Students will compare and contrast the concepts of angular velocity and linear velocity and demonstrate by graphical or algebraic means relationship between them and apply to real-world problems.
Session-2 (1-10)	WV	MA.9-12.M.O.T.3.2.b	Students will compare and contrast the concepts of angular velocity and linear velocity and demonstrate by graphical or algebraic means relationship between them and apply to real-world problems.
Session-3 (1-6)	WV	MA.9-12.M.O.T.3.2.b	Students will compare and contrast the concepts of angular velocity and linear velocity and demonstrate by graphical or algebraic means relationship between them and apply to real-world problems.
Session-4 (1-11)	WV	MA.9-12.M.O.T.3.2.b	Students will compare and contrast the concepts of angular velocity and linear velocity and demonstrate by graphical or algebraic means relationship between them and apply to real-world problems.
Session-5 (1-6)	WV	MA.9-12.M.O.T.3.2.b	Students will compare and contrast the concepts of angular velocity and linear velocity and demonstrate by graphical or algebraic means relationship between them and apply to real-world problems.
Session-6 (1-8)	WV	MA.9-12.M.O.T.3.2.b	Students will compare and contrast the concepts of angular velocity and linear velocity and demonstrate by graphical or algebraic means relationship between them and apply to real-world problems.
Session-7 (1-5)	WV	MA.9-12.M.O.T.3.2.b	Students will compare and contrast the concepts of angular velocity and linear velocity and demonstrate by graphical or algebraic means relationship between them and apply to real-world problems.
Session-8 (1-9)	WV	MA.9-12.M.O.T.3.2.b	Students will compare and contrast the concepts of angular velocity and linear velocity and demonstrate by graphical or algebraic means relationship between them and apply to real-world problems.
Session-9 (1-7)	WV	MA.9-12.M.O.T.3.2.b	Students will compare and contrast the concepts of angular velocity and linear velocity and demonstrate by graphical or algebraic means relationship between them and apply to real-world problems.